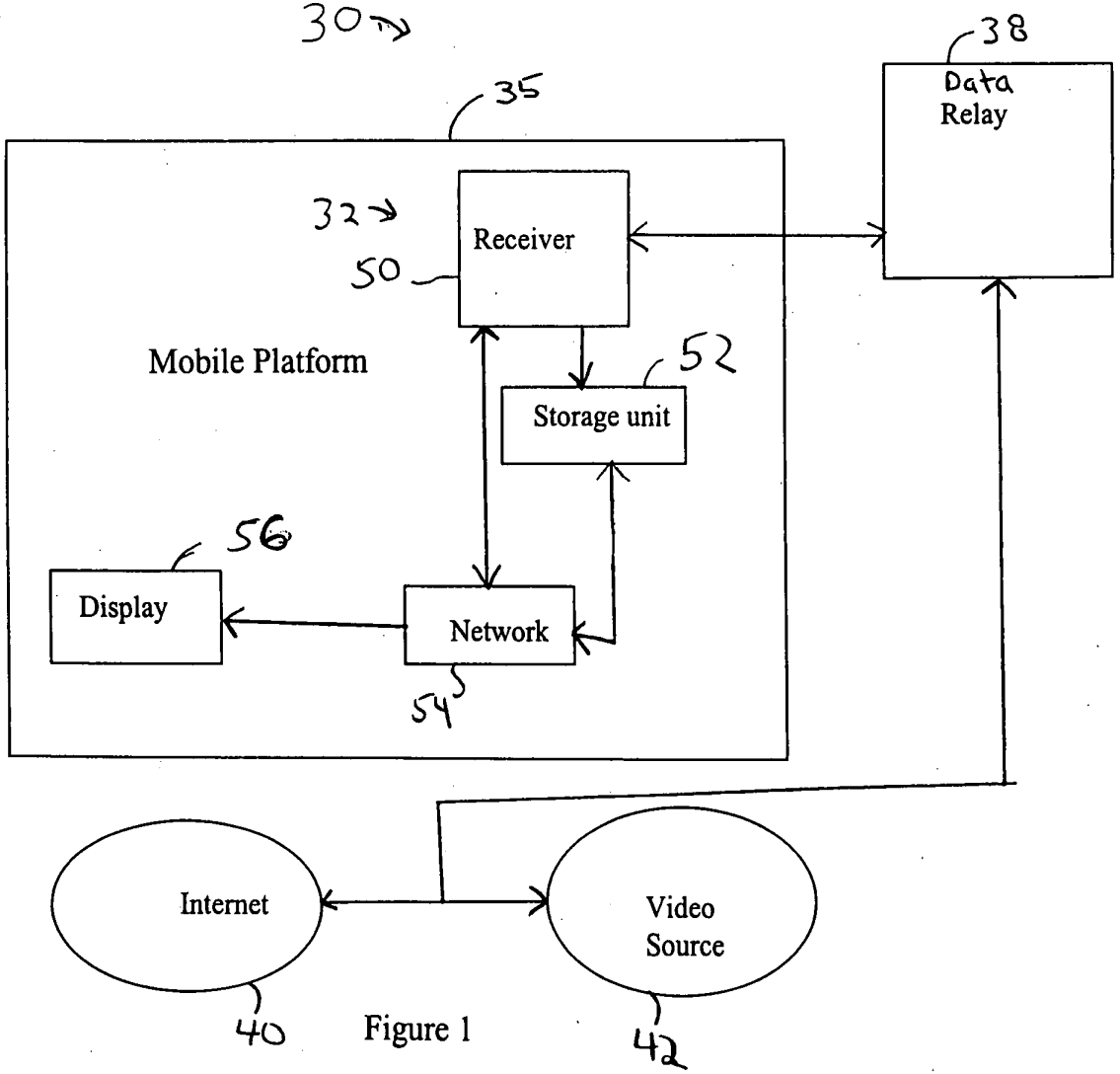


Figure 1

09494198.012800

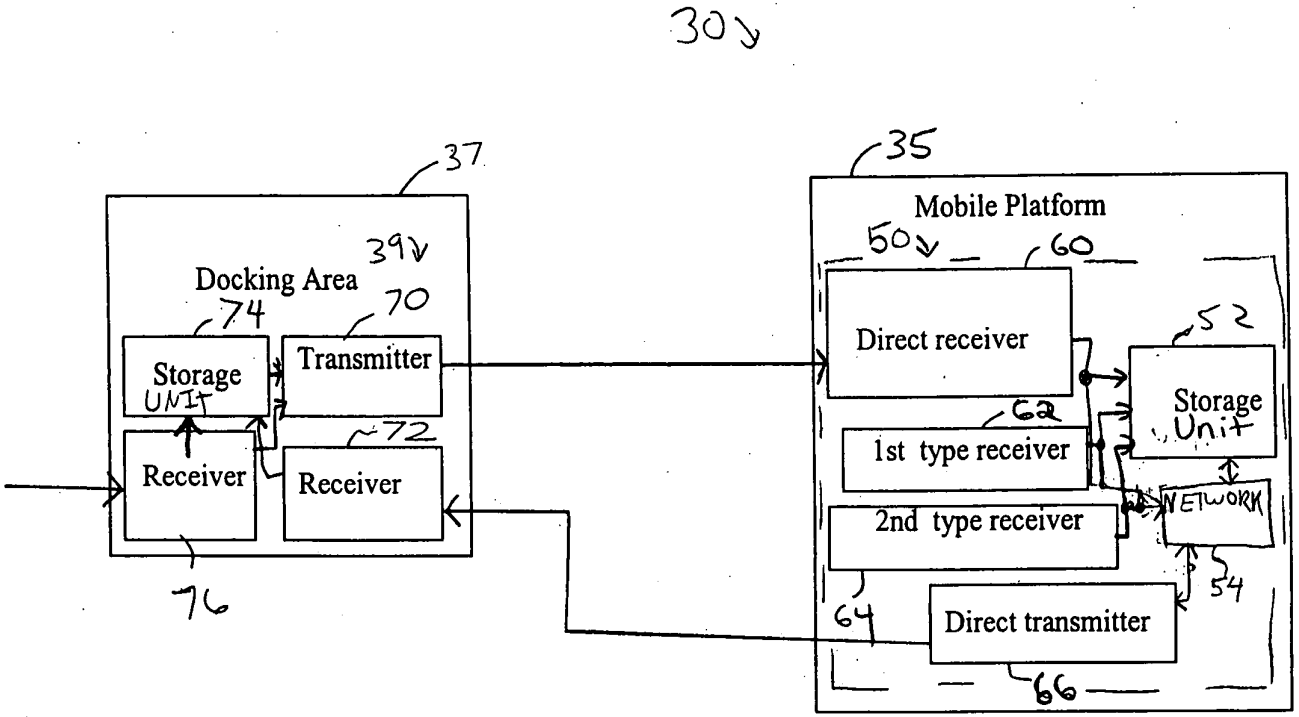


Figure 2

09494198.012800

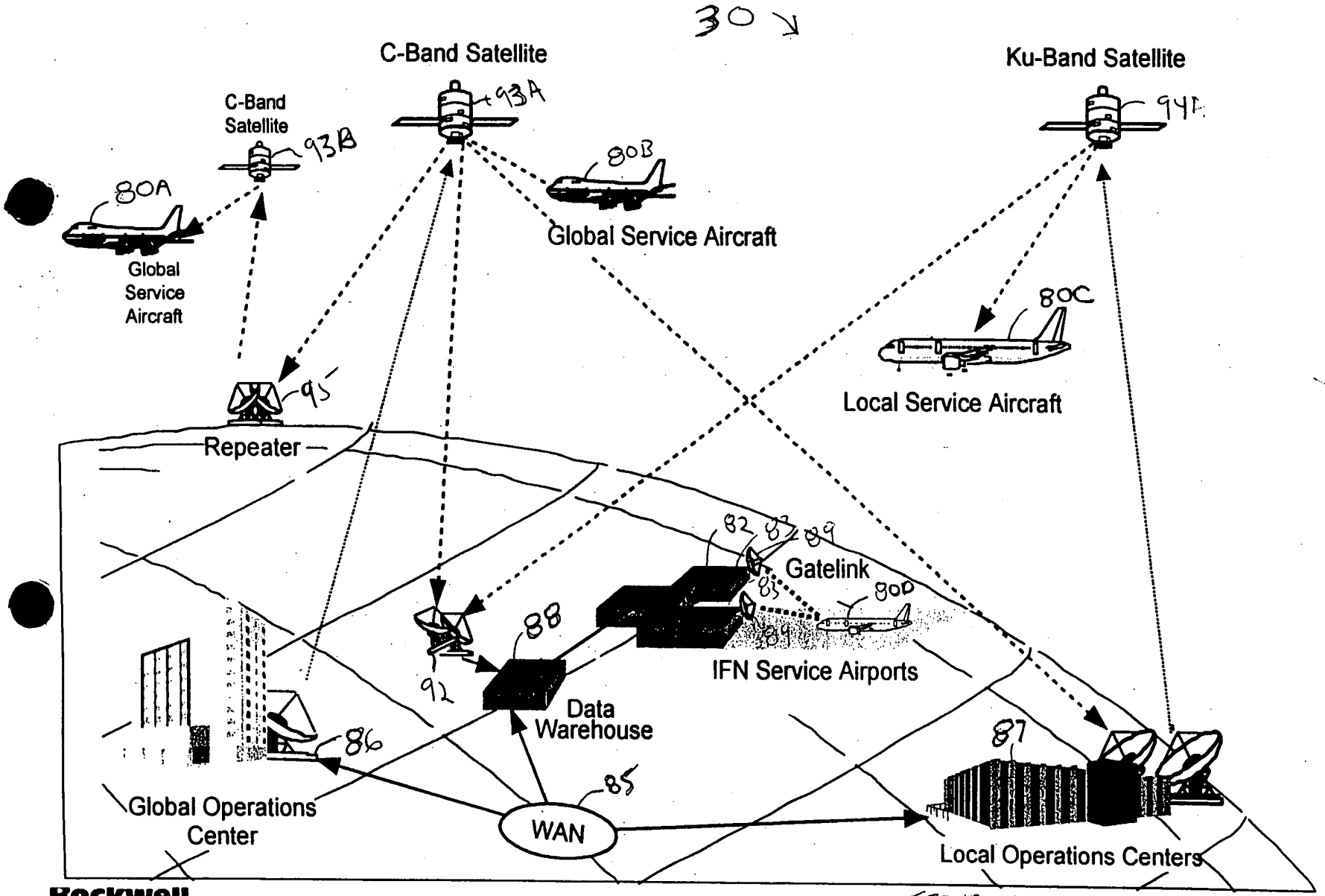


FIGURE 3

09494192.012800

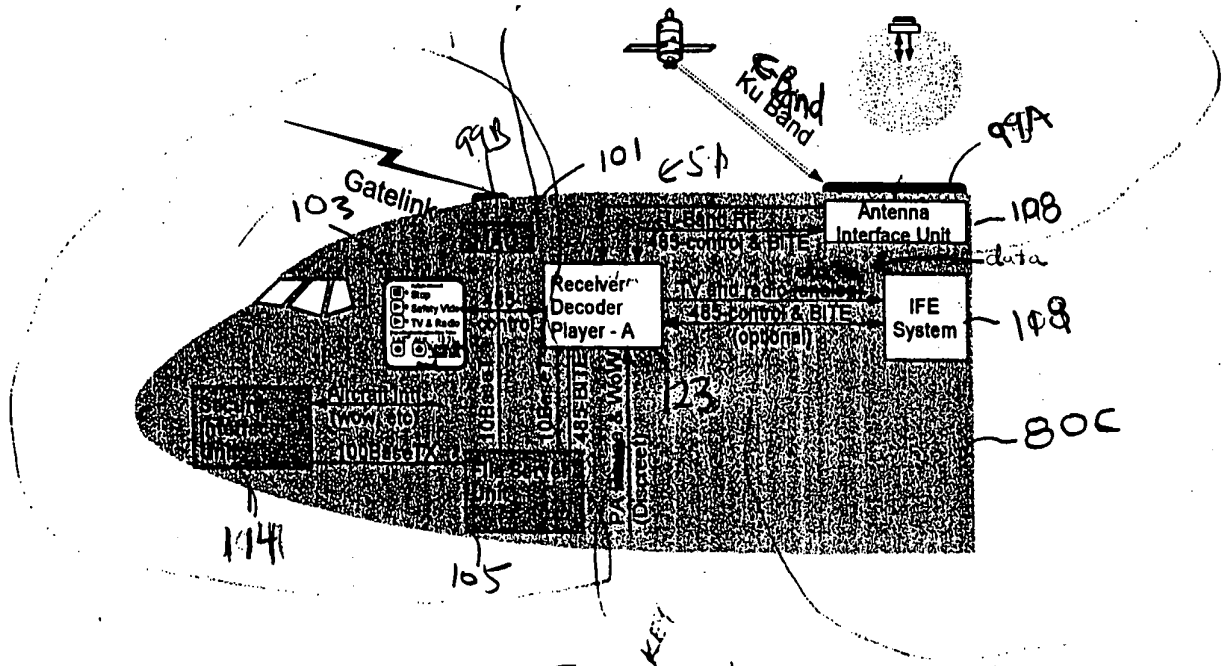

Ku Band
Gatelink
Antenna
Interface Unit
data
Receiver
Decoder
Player - A
IFE
System
(optional)
123
105

FIGURE 4

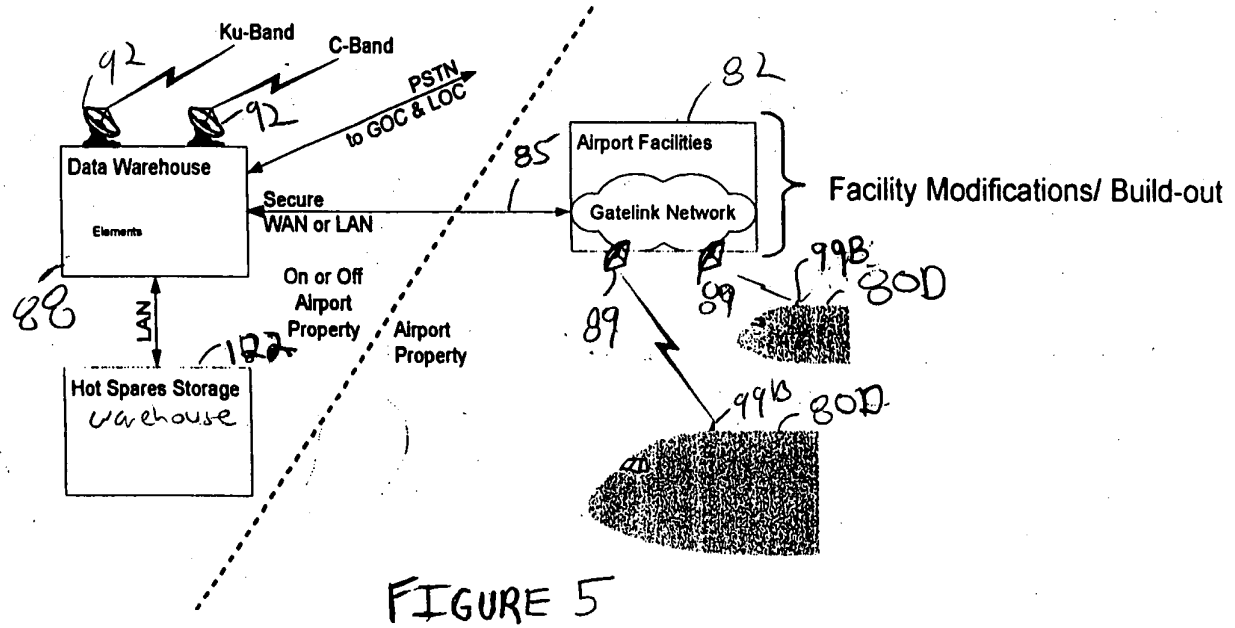


FIGURE 5

09494198 . 012800

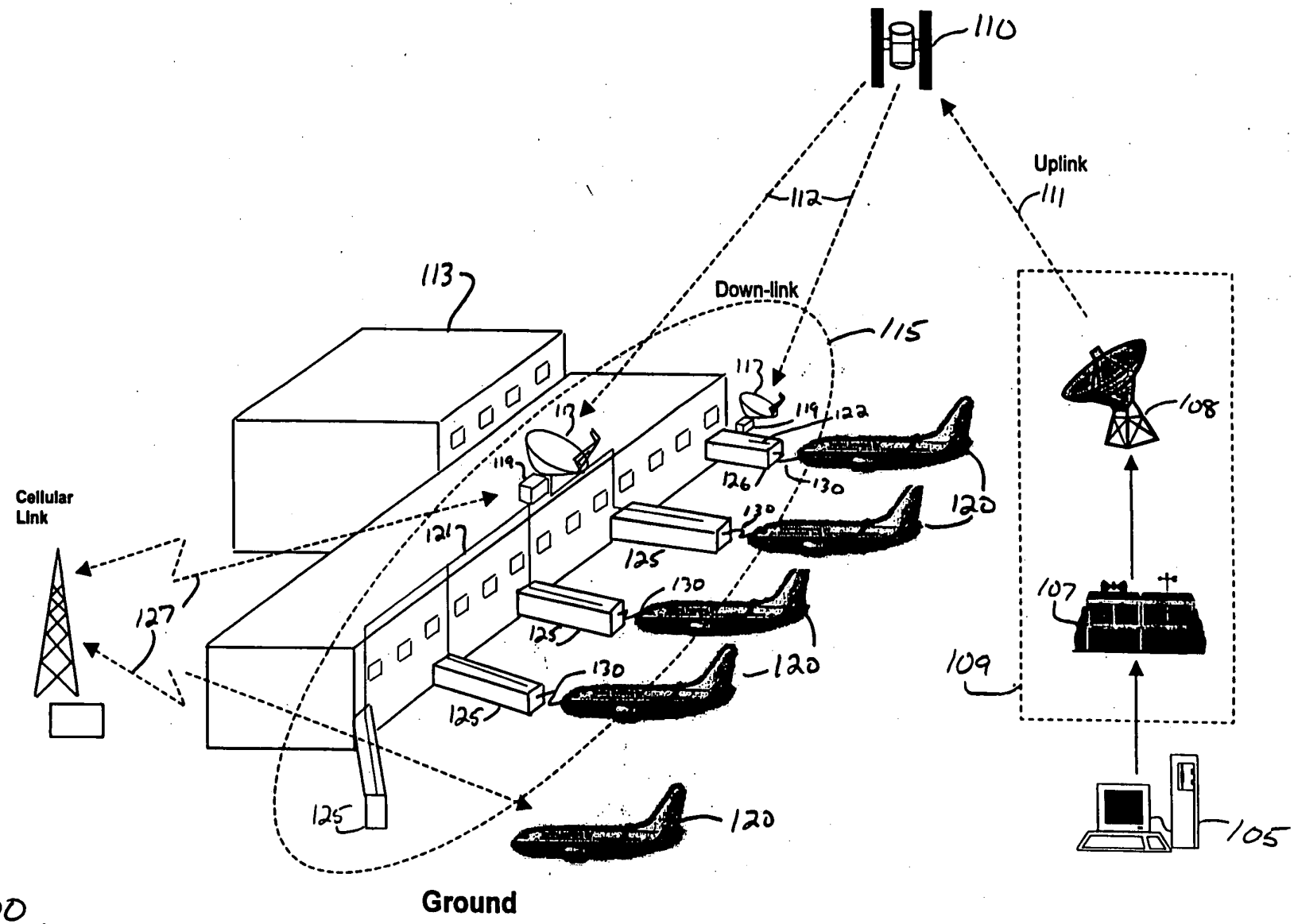


Figure 6

09494198 . 012800

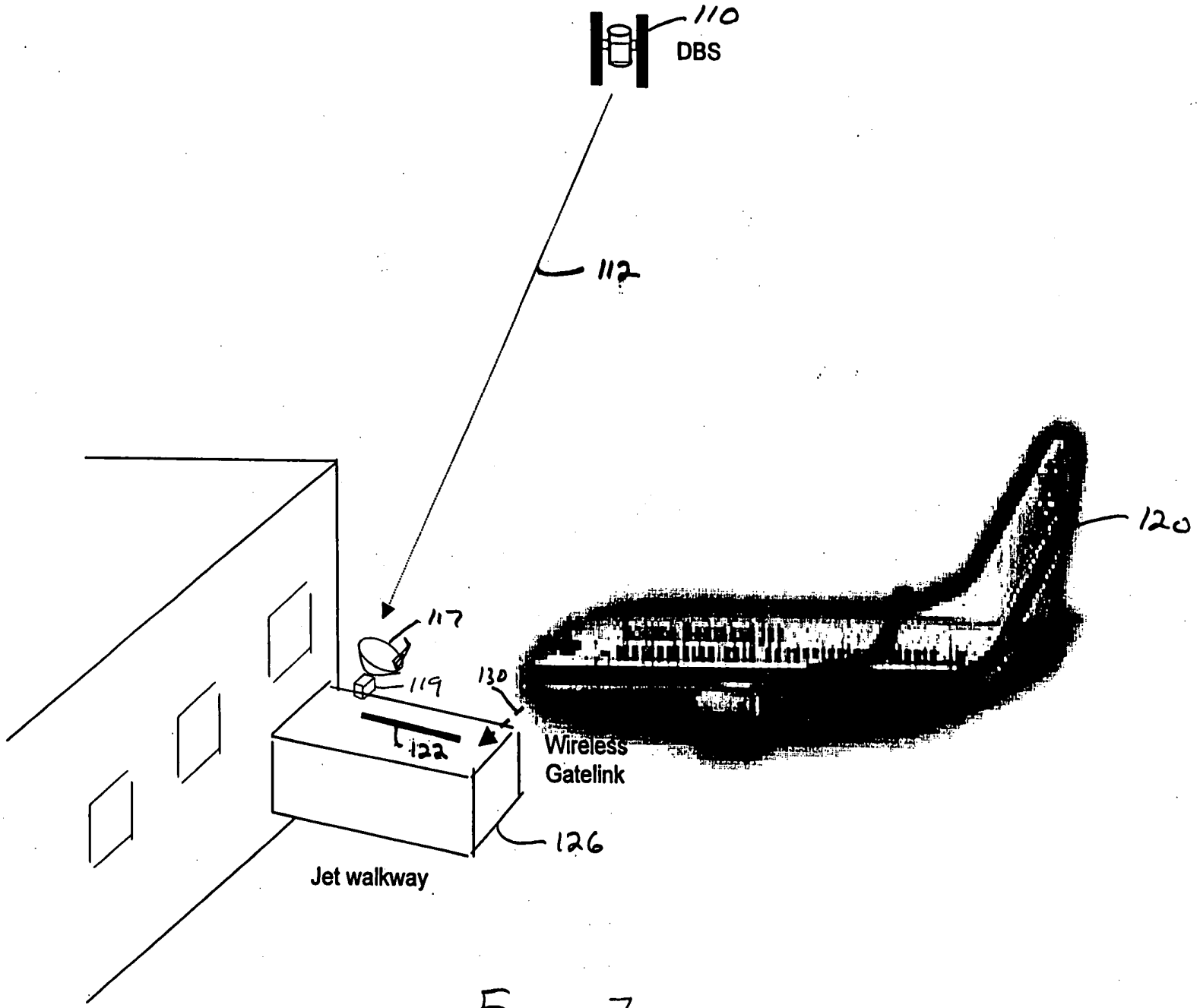


Figure 7.

09494198 .012800

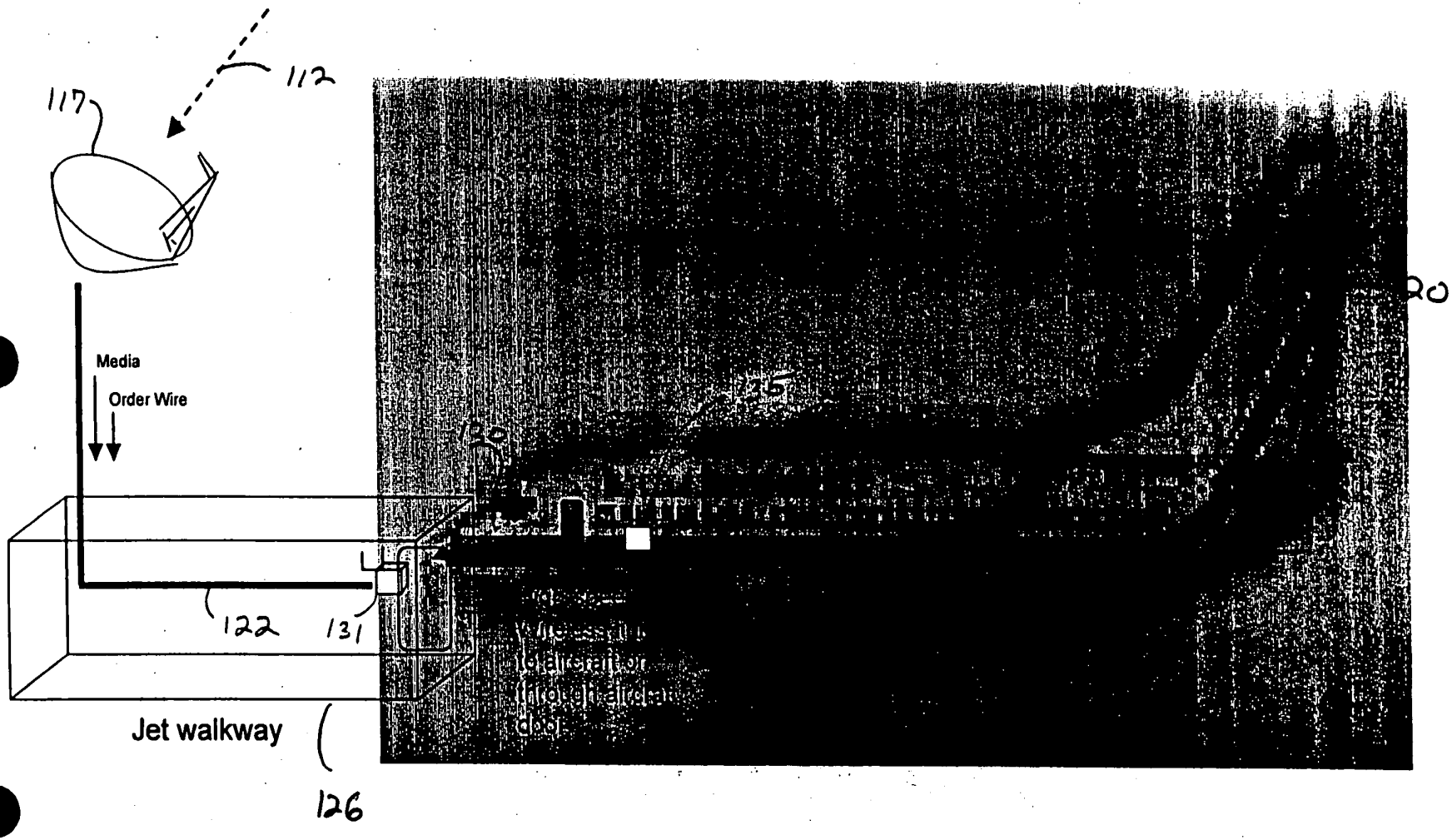


Figure 8

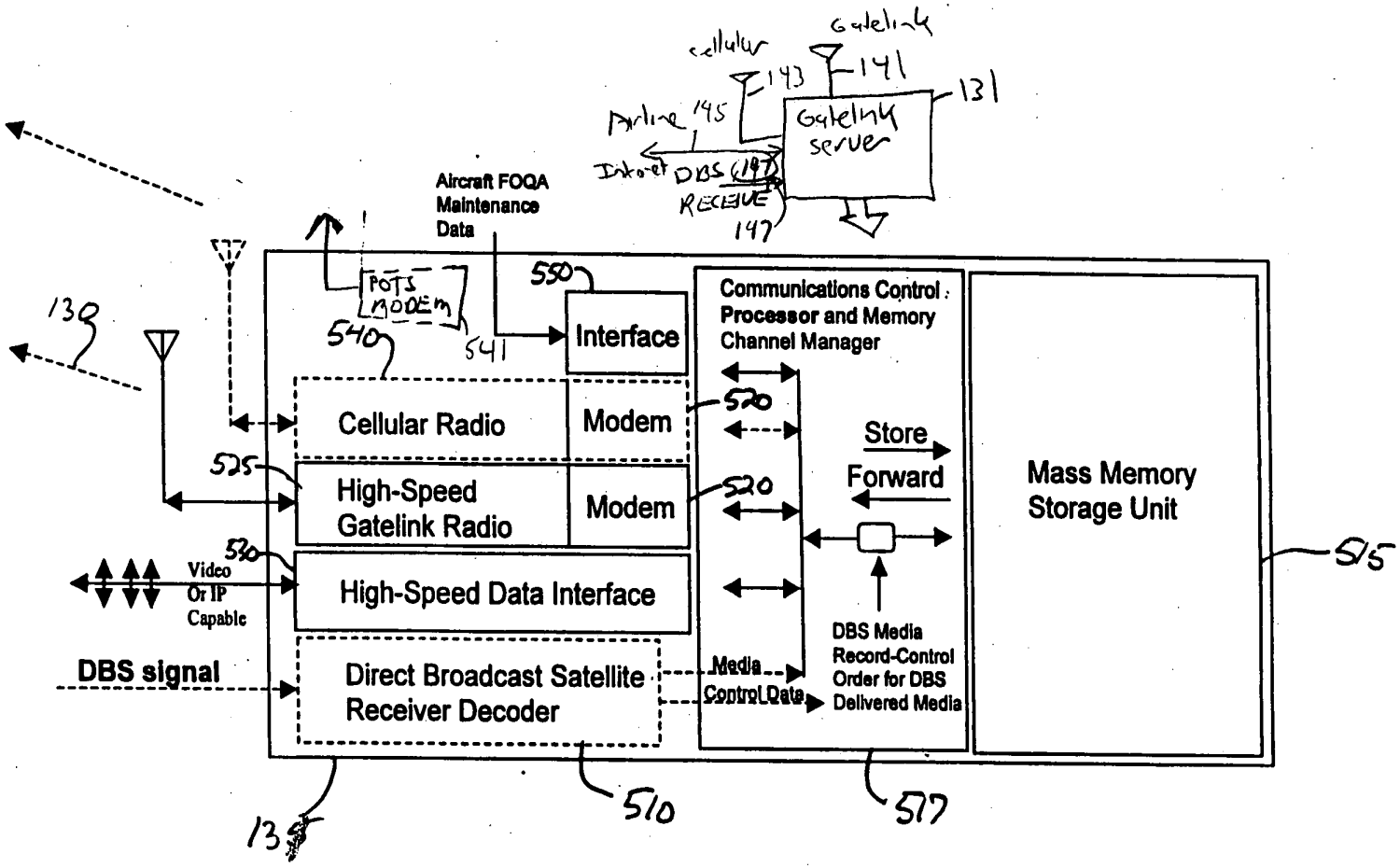


Figure 9

09494198 .012800

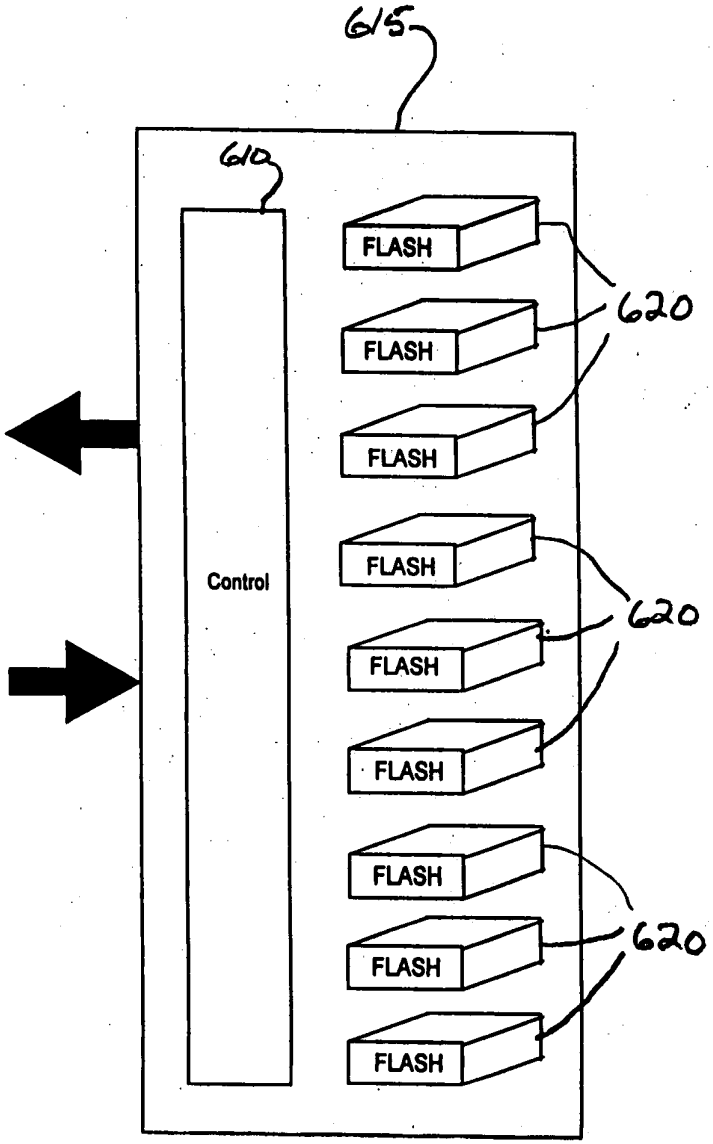


Figure 10

09494198 .012800

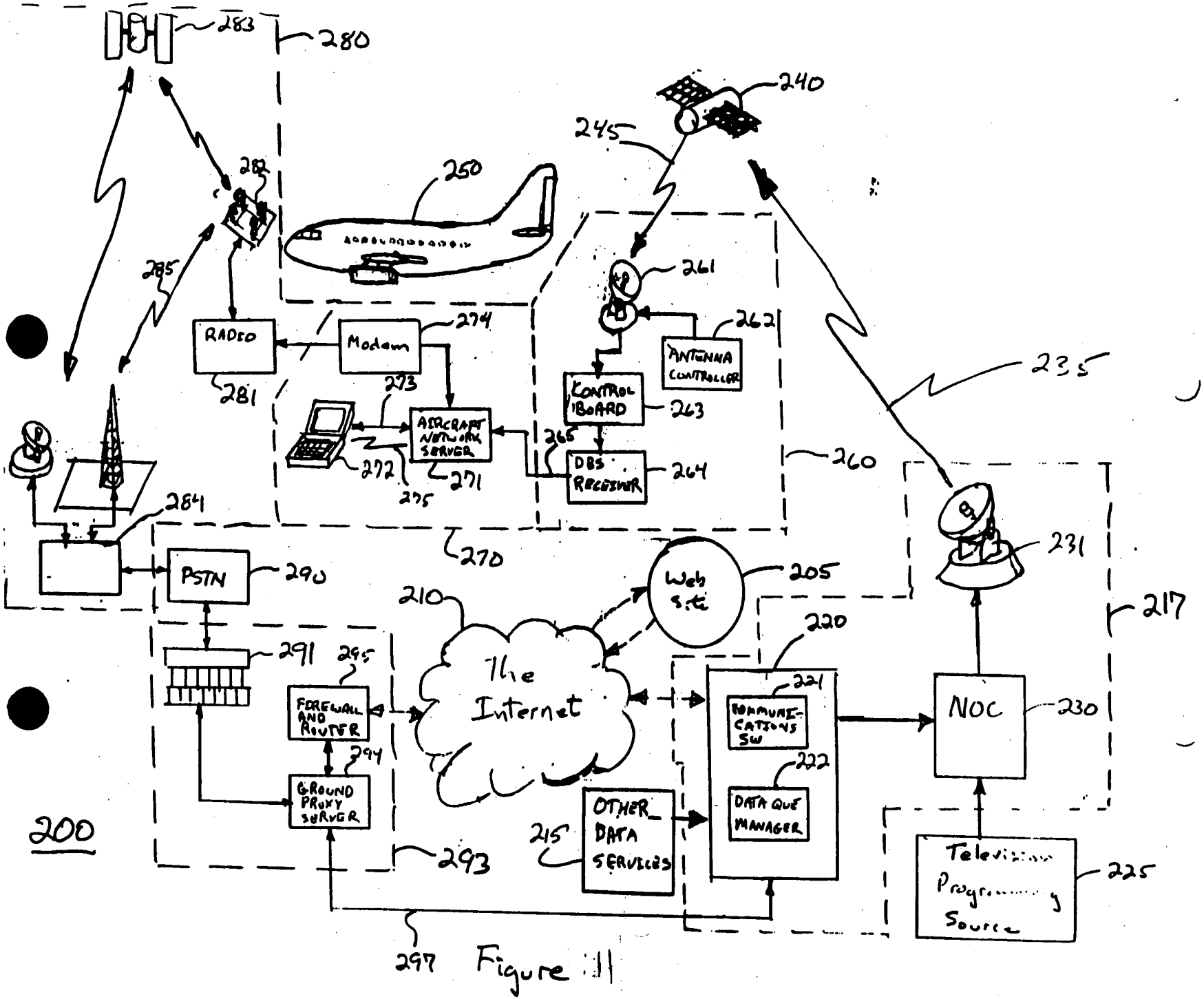
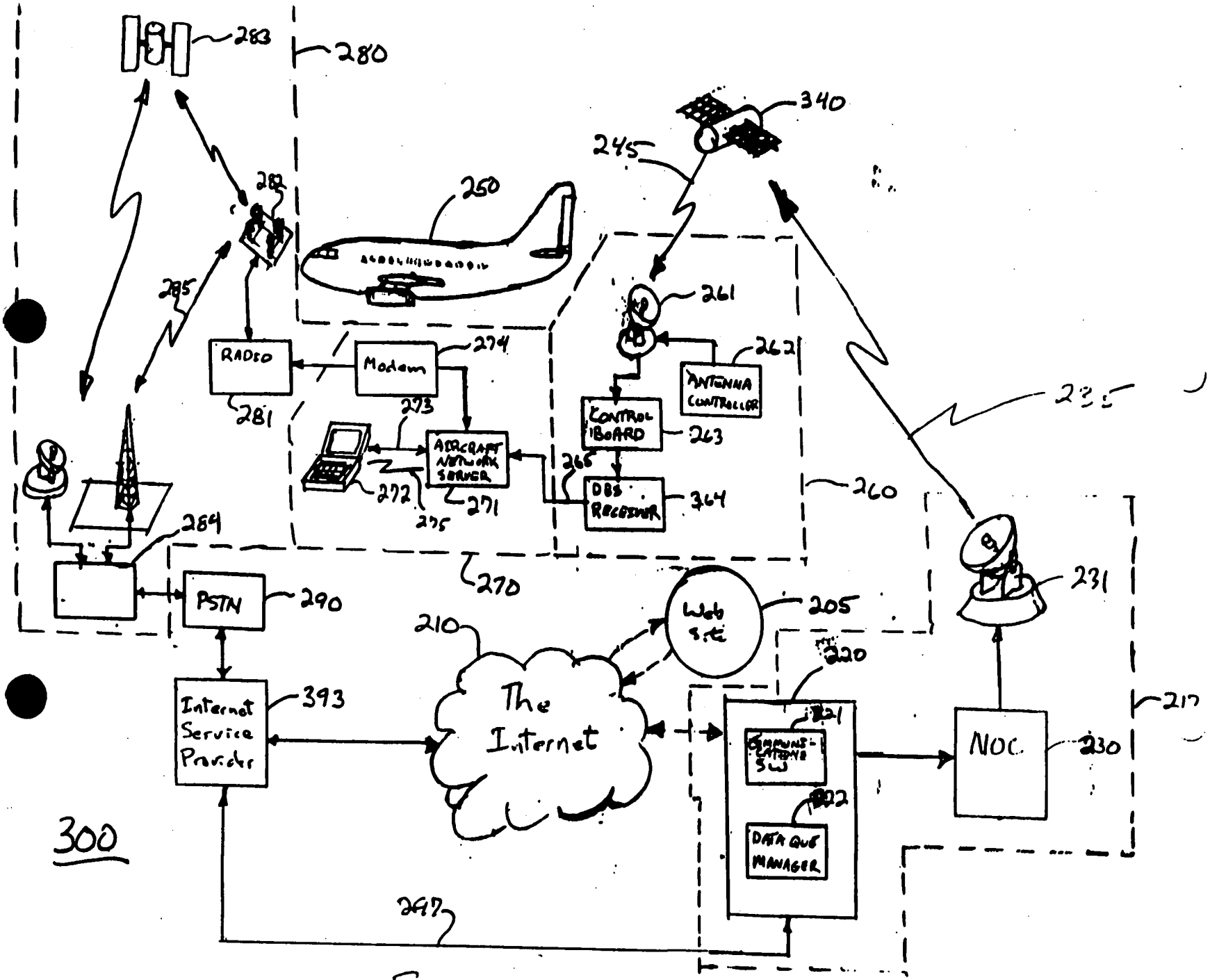


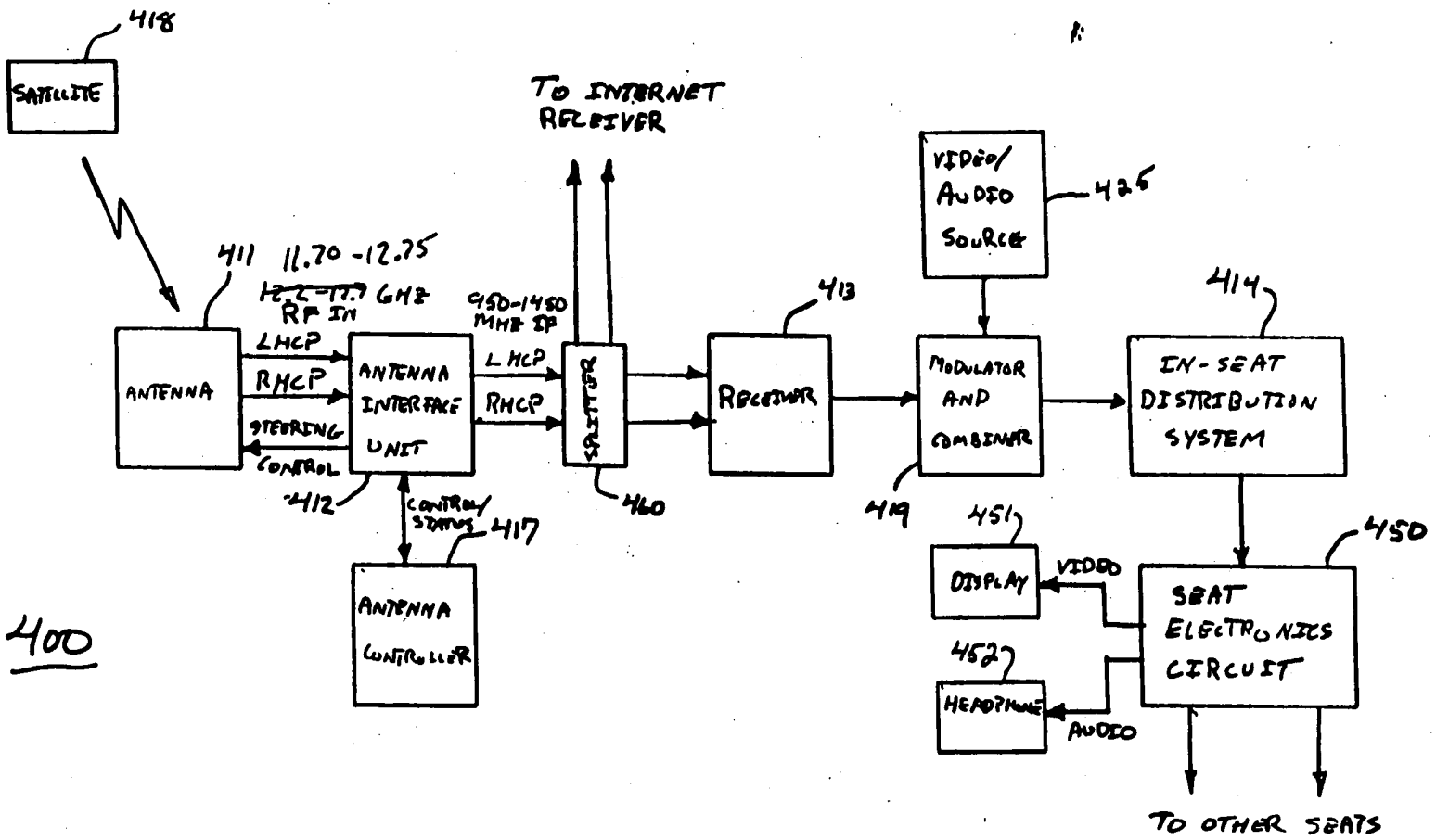
Figure 11

09494198.012800



Figure

09424198.012800



400

Figure 13

09494198 .012800

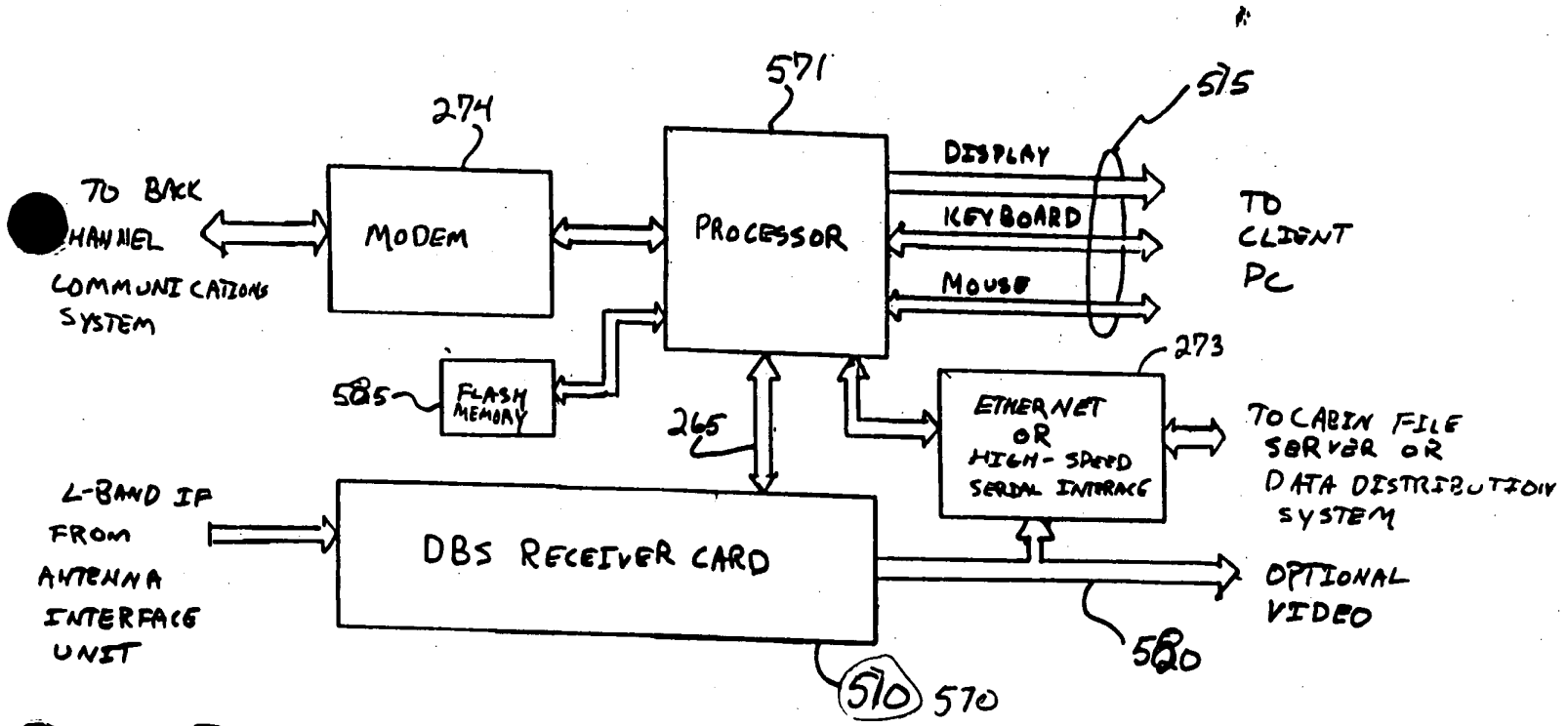


Figure 14

09494193.012800

"Aviation / Automotive Express"

High Speed DBS Data Channel for ~~Aviation~~ MOBILE PLATFORMS

600

Internet user - 56 k	(uses NATS or INMARSAT for back-channel)
Internet user - 28.8 k	(uses NATS or INMARSAT for back-channel)
Internet user - 28.8 k	(uses NATS or INMARSAT for back-channel)
FTP - 28.8 k	
Fax - 28.8 k	
Voice mail - 4800	
DBS Gatelink Media File Server **Order Wire**	

606

User and **Order Wire** channels (priority)

Dynamic allocation of bandwidth between **user** channels and **core** data broadcasting. User channels have priority - this part may fit AgCast's competency. AgCast is also an Internet data content aggregator.

Core broadcasting content "grows and shrinks" according to user channel BW demand. Core programming may be resold to an unlimited audience in the air or on the ground.

AgCast

Litton Weather WSI Services

DATA BROADCASTING CORPORATION

COMTEX

Weather graphics
Airport Conditions
Stock Market
News / Press /
~~HTML~~ Ads and Streaming Media
Client Pay Per View Video (priority)

604

Core data programming broadcast channel (variable)

Rockwell

Business & Regional Systems
- Fax to plane
- Core data
- Full Internet
- "Off-line" Internet
- E-mail / FTP

Air Transport Systems
- Fax to plane
- Large file FTP messaging
- Wireless airport terminal area file server loading / complementing I²S
- Core data to I²S server
  - Stocks, Weather, News

Passenger Systems
- IFN IFE systems

Additional Aviation Related Content Aggregation .... Ad revenue avenue

Fixed contracted (less pre-existing core programming) DBS BW from Echostar and /or AgCast (1-Megabit per second as an example)

ECHOSTAR

Figure 15

This Figure Contains Rockwell Proprietary Information

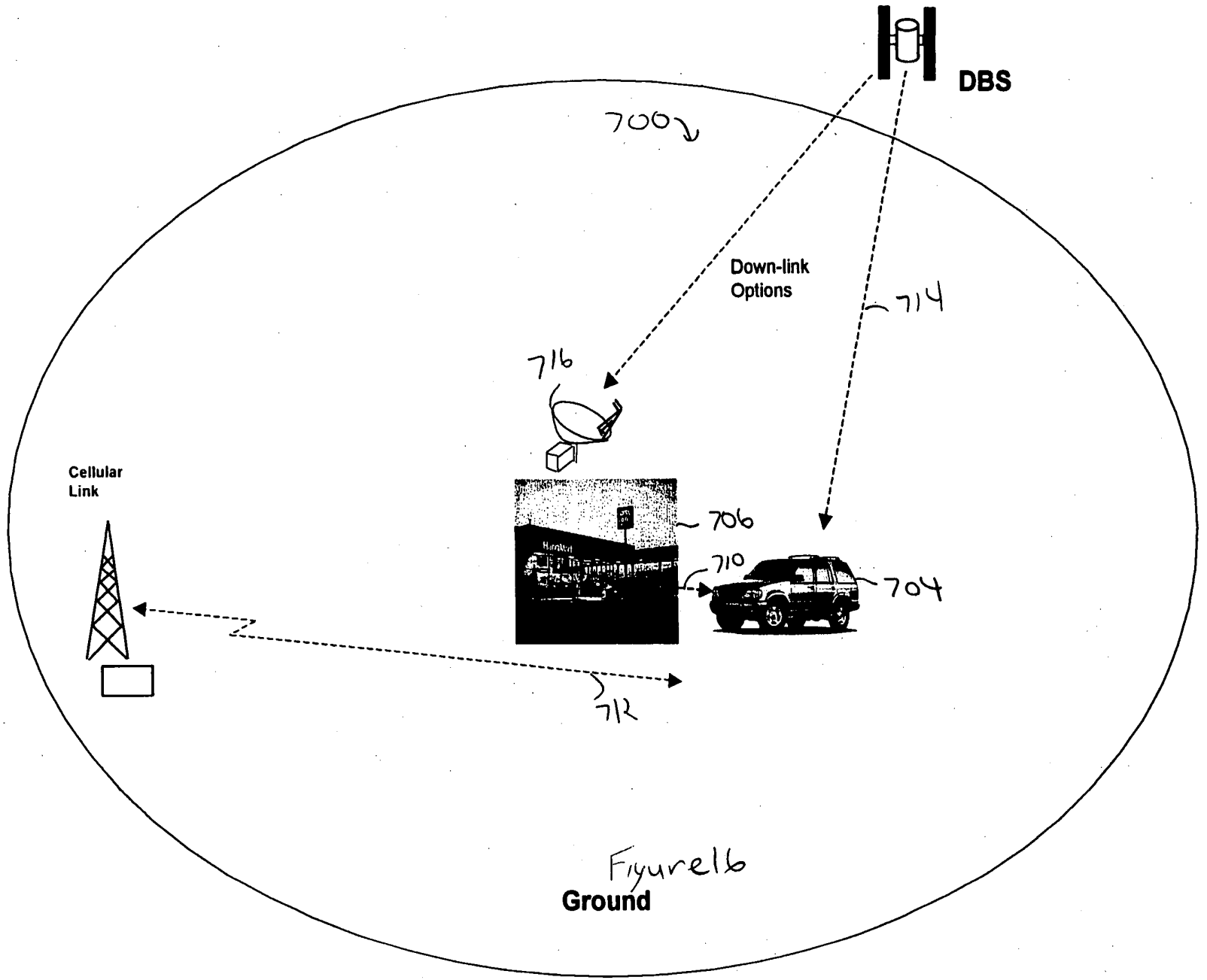


Figure 16

This Figure Contains Rockwell Proprietary Information